

Appendix 1 – Severe Storm History in Clermont County

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Hail	10 CLERMONT	8/21/1977	1530	2.00 in.	0	0	0	0
Hail	17 CLERMONT	5/2/1983	1330	1.00 in.	0	0	0	0
Hail	22 CLERMONT	5/7/1986	1445	0.75 in.	0	0	0	0
Hail	23 CLERMONT	5/7/1986	1500	2.00 in.	0	0	0	0
Hail	24 CLERMONT	5/7/1986	1522	0.75 in.	0	0	0	0
Hail	25 CLERMONT	5/7/1986	1551	0.75 in.	0	0	0	0
Hail	33 CLERMONT	7/27/1989	2000	1.00 in.	0	0	0	0
Hail	37 CLERMONT	5/16/1990	2215	0.75 in.	0	0	0	0
Hail	38 CLERMONT	5/16/1990	2243	0.75 in.	0	0	0	0
Hail	54 CLERMONT	7/8/1991	750	0.75 in.	0	0	0	0
Hail	70 Felicity	4/12/1994	2210	0.75 in.	0	0	0	0
Hail	76 Felicity	7/29/1994	1300	1.75 in.	0	0	0	50K
Hail	92 West Part	6/9/1995	1845	0.75 in.	0	0	0	0
Hail	94 Bethel	6/21/1995	405	0.75 in.	0	0	0	0
Hail	95 Bethel	6/22/1995	1351	0.75 in.	0	0	0	0
Hail	122 Countywide	5/21/1996	5:00 AM	0.75 in.	0	0	0	0
Hail	123 Miamiville	5/24/1996	5:00 AM	0.75 in.	0	0	0	0
Hail	124 Goshen	5/24/1996	8:35 PM	0.75 in.	0	0	0	0
Hail	139 Milford	3/28/1997	8:20 PM	0.75 in.	0	0	0	0
Hail	152 Batavia	4/8/1998	2:25 AM	0.75 in.	0	0	0	0
Hail	155 Batavia	5/13/1998	6:15 PM	0.75 in.	0	0	0	0
Hail	156 Bethel	5/13/1998	6:35 PM	1.00 in.	0	0	0	0
Hail	159 Milford	5/23/1998	3:36 PM	1.00 in.	0	0	0	0
Hail	160 Amelia	5/24/1998	5:12 PM	0.75 in.	0	0	0	0
Hail	189 Milford	10/13/1999	3:33 PM	0.75 in.	0	0	0	0
Hail	203 Newtonsville	7/14/2000	2:45 PM	0.75 in.	0	0	0	0
Hail	204 Felicity	7/14/2000	3:00 PM	2.50 in.	0	0	100K	500K
Hail	205 Countywide	8/9/2000	5:00 PM	1.00 in.	0	0	25K	0
Hail	217 Loveland	5/11/2001	3:27 PM	0.75 in.	0	0	0	0
Hail	218 Milford	5/17/2001	12:59 PM	0.75 in.	0	0	0	0
Hail	236 Summerside	2/20/2002	2:01 PM	0.75 in.	0	0	3K	0
Hail	238 Milford	4/19/2002	3:56 PM	1.00 in.	0	0	2.5M	0
Hail	239 Mt Repose	4/19/2002	5:10 PM	0.75 in.	0	0	10K	0
Heavy Snow	66 Southwest Ohio Cin	12/25/1993	9999	N/A	0	0	5K	0
Heavy Snow	67 Southwest Through North	3/9/1994	400	N/A	0	0	500K	0

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Heavy Snow	81 OHZ047>049 - 056 - 057 - 063>066 - 069>074 - 077>080	2/3/1995	1200	N/A	0	0	60K	0
Heavy Snow	83 OHZ071>074 - 078>082 - 086	3/1/1995	1800	N/A	0	0	50K	0
Heavy Snow	176 OHZ026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>082 - 088	3/9/1999	12:00 AM	N/A	0	0	0	0
Heavy Snow	177 OHZ073>074 - 077>082 - 088	3/13/1999	9:00 AM	N/A	0	0	0	0
Heavy Snow	215 OHZ073 - 078>082 - 088	1/19/2001	7:00 PM	N/A	0	0	0	0
Heavy Snow/ice	80 OHZ070>073 - 075>080 - 082>086	1/28/1995	600	N/A	0	0	600K	0
High Wind	212 OHZ026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>082 - 088	12/11/2000	9:00 PM	58 kts.	1	0	100K	0
High Wind	237 OHZ026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>082 - 088	3/9/2002	12:43 PM	73 kts.	1	12	971K	0
High Wind	242 OHZ077>078	4/28/2002	2:15 PM	50 kts.	0	0	40K	0
High Winds	68 Southern Half	3/18/1994	1155	0 kts.	0	2	500K	0
High Winds	98 Southwest	10/20/1995	900	0 kts.	0	0	3K	0
Ice Storm	78 OHZ051>053 - 060>063 - 070 - 071 - 077>079	1/6/1995	800	N/A	0	26	400K	0
Ice Storm	105 OHZ015>016 - 024>026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>082 - 088	3/6/1996	1:00 AM	N/A	0	0	0	0
Ice Storm	134 OHZ042 - 051>056 - 060>065 - 070>072 - 077>078	1/24/1997	7:00 AM	N/A	0	0	0	0
Ice Storm	135 OHZ073 - 077>082	1/27/1997	7:00 AM	N/A	0	0	0	0
Ice Storm	213 OHZ045>046 - 052>056 - 060>065 - 070>074 - 077>082 - 088	12/13/2000	6:00 PM	N/A	0	0	0	0

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Lightning	118 Milford	5/15/1996	3:00 PM	N/A	0	0	5K	0
Lightning	121 Owensville	5/16/1996	11:00 AM	N/A	0	0	5K	0
Lightning	126 Union Twp	5/24/1996	10:00 PM	N/A	0	0	50K	0
Lightning	127 Milford	6/6/1996	6:00 PM	N/A	0	0	1K	0
Lightning	181 Central Portion	6/10/1999	11:05 PM	N/A	0	2	0	0
Lightning	251 Milford	8/18/2002	2:00 PM	N/A	0	3	0	0
Snow	79 OHZ001 - 003 - 007 - 015 - 016 - 024 - 034 - 035 - 042 - 043 - 051>053 - 055 - 060>065 - 070>074 - 077>079	1/21/1995	100	N/A	2	6	500K	0
Tstm Wind	65 Pierce	8/28/1993	1525	N/A	0	0	50K	0
Tstm Wind	71 Countywide	4/15/1994	1120	N/A	0	0	500K	0
Tstm Wind	72 Williamsburg	6/7/1994	1338	N/A	0	0	50K	0
Tstm Wind	73 Stonelick Township	6/16/1994	948	N/A	0	0	5K	0
Tstm Wind	74 Clermontville	6/17/1994	1915	N/A	0	0	5K	0
Tstm Wind	75 Jackson Township	6/21/1994	1750	N/A	0	0	5K	0
Tstm Wind	77 Loveland	8/4/1994	1631	N/A	0	0	5K	0
Tstm Wind	89 Batavia And	5/29/1995	30	N/A	0	0	7K	0
Tstm Wind	2 CLERMONT	11/26/1965	2327	55 kts.	0	0	0	0
Tstm Wind	3 CLERMONT	7/13/1966	1500	0 kts.	0	0	0	0
Tstm Wind	5 CLERMONT	5/18/1969	1625	0 kts.	0	0	0	0
Tstm Wind	7 CLERMONT	4/1/1974	1930	0 kts.	0	0	0	0
Tstm Wind	9 CLERMONT	7/15/1976	1630	0 kts.	0	0	0	0
Tstm Wind	11 CLERMONT	10/1/1977	600	0 kts.	0	0	0	0
Tstm Wind	15 CLERMONT	5/12/1980	1715	57 kts.	0	0	0	0
Tstm Wind	16 CLERMONT	6/2/1980	1525	52 kts.	0	0	0	0
Tstm Wind	18 CLERMONT	5/2/1983	1430	0 kts.	0	0	0	0
Tstm Wind	19 CLERMONT	7/18/1983	2030	0 kts.	0	0	0	0
Tstm Wind	20 CLERMONT	7/23/1983	1530	0 kts.	0	0	0	0
Tstm Wind	21 CLERMONT	6/11/1985	1650	0 kts.	0	0	0	0
Tstm Wind	26 CLERMONT	5/7/1986	1945	0 kts.	0	0	0	0
Tstm Wind	27 CLERMONT	8/6/1986	1240	0 kts.	0	0	0	0
Tstm Wind	28 CLERMONT	7/26/1987	1705	0 kts.	0	0	0	0
Tstm Wind	29 CLERMONT	4/23/1988	1320	0 kts.	0	0	0	0
Tstm Wind	30 CLERMONT	8/5/1988	1835	0 kts.	0	0	0	0
Tstm Wind	31 CLERMONT	4/29/1989	1556	0 kts.	0	0	0	0
Tstm Wind	32 CLERMONT	7/12/1989	1800	0 kts.	0	0	0	0
Tstm Wind	34 CLERMONT	7/27/1989	2035	0 kts.	0	0	0	0

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Tstm Wind	35 CLERMONT	7/27/1989	2100	0 kts.	0	0	0	0
Tstm Wind	36 CLERMONT	8/5/1989	1645	0 kts.	0	0	0	0
Tstm Wind	40 CLERMONT	6/6/1990	1635	0 kts.	0	0	0	0
Tstm Wind	41 CLERMONT	7/5/1990	1720	0 kts.	0	0	0	0
Tstm Wind	42 CLERMONT	7/9/1990	1850	0 kts.	0	0	0	0
Tstm Wind	43 CLERMONT	7/11/1990	1420	0 kts.	0	0	0	0
Tstm Wind	44 CLERMONT	7/20/1990	1445	0 kts.	0	0	0	0
Tstm Wind	45 CLERMONT	8/22/1990	1710	0 kts.	0	0	0	0
Tstm Wind	46 CLERMONT	8/28/1990	2215	0 kts.	0	0	0	0
Tstm Wind	47 CLERMONT	9/14/1990	1510	0 kts.	0	0	0	0
Tstm Wind	48 CLERMONT	4/9/1991	1500	0 kts.	0	0	0	0
Tstm Wind	49 CLERMONT	4/23/1991	1950	0 kts.	0	0	0	0
Tstm Wind	50 CLERMONT	5/16/1991	1819	0 kts.	0	0	0	0
Tstm Wind	51 CLERMONT	5/16/1991	1900	0 kts.	0	0	0	0
Tstm Wind	52 CLERMONT	5/17/1991	2021	0 kts.	0	0	0	0
Tstm Wind	53 CLERMONT	7/2/1991	1657	0 kts.	0	0	0	0
Tstm Wind	55 CLERMONT	8/3/1991	2025	0 kts.	0	0	0	0
Tstm Wind	56 CLERMONT	8/8/1991	1617	0 kts.	0	0	0	0
Tstm Wind	57 CLERMONT	4/10/1992	1335	0 kts.	0	0	0	0
Tstm Wind	58 CLERMONT	6/18/1992	430	0 kts.	0	0	0	0
Tstm Wind	59 CLERMONT	6/18/1992	1930	0 kts.	0	0	0	0
Tstm Wind	60 CLERMONT	7/9/1992	2242	0 kts.	0	0	0	0
Tstm Wind	61 CLERMONT	7/11/1992	1550	0 kts.	0	0	0	0
Tstm Wind	62 CLERMONT	7/18/1992	1205	0 kts.	0	0	0	0
Tstm Wind	63 CLERMONT	9/21/1992	1700	0 kts.	0	0	0	0
Tstm Wind	107 New Richmond	4/20/1996	3:33 AM	50 kts.	0	0	2K	0
Tstm Wind	108 Manchester	4/23/1996	11:00 AM	50 kts.	0	0	1K	0
Tstm Wind	109 Batavia	4/29/1996	3:43 PM	50 kts.	0	0	2K	0
Tstm Wind	113 Batavia	5/4/1996	2:30 PM	50 kts.	0	0	3K	0
Tstm Wind	114 Felicity	5/4/1996	12:10 AM	50 kts.	0	0	2K	0
Tstm Wind	116 Neville	5/8/1996	5:46 PM	50 kts.	0	0	10K	0
Tstm Wind	125 Bethel	5/24/1996	8:54 PM	50 kts.	0	0	3K	0
Tstm Wind	128 Amelia	6/14/1996	6:40 PM	50 kts.	0	0	5K	0
Tstm Wind	129 Batavia	6/24/1996	2:30 PM	50 kts.	0	0	3K	0
Tstm Wind	131 Countywide	11/7/1996	4:40 PM	50 kts.	0	0	10K	0
Tstm Wind	133 Goshen	1/5/1997	12:25 AM	50 kts.	0	0	5K	0

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Tstm Wind	140 Batavia	3/28/1997	10:05 PM	52 kts.	0	0	0	0
Tstm Wind	141 Bethel	5/19/1997	3:50 PM	60 kts.	0	0	100K	0
Tstm Wind	147 Clermontville	7/22/1997	10:30 AM	50 kts.	0	0	5K	0
Tstm Wind	148 Countywide	7/27/1997	7:24 PM	50 kts.	0	0	10K	0
Tstm Wind	149 Countywide	8/17/1997	1:45 PM	50 kts.	0	0	15K	0
Tstm Wind	150 Lindale	8/27/1997	4:00 PM	50 kts.	0	0	5K	0
Tstm Wind	157 Loveland	5/13/1998	8:00 PM	50 kts.	0	0	5K	0
Tstm Wind	158 Batavia	5/19/1998	11:00 PM	50 kts.	0	0	3K	0
Tstm Wind	161 Laurel	6/10/1998	2:48 AM	50 kts.	0	0	3K	0
Tstm Wind	162 Moscow	6/10/1998	12:10 AM	50 kts.	0	0	3K	0
Tstm Wind	165 Owensville	6/11/1998	11:35 PM	50 kts.	0	0	3K	0
Tstm Wind	166 Countywide	6/12/1998	9:45 PM	50 kts.	0	0	10K	0
Tstm Wind	167 Milford	6/16/1998	11:30 AM	50 kts.	0	0	3K	0
Tstm Wind	169 Goshen	6/19/1998	1:50 AM	50 kts.	0	0	10K	0
Tstm Wind	170 Batavia	6/22/1998	4:40 PM	50 kts.	0	0	5K	0
Tstm Wind	171 Milford	6/29/1998	10:30 PM	50 kts.	0	0	3K	0
Tstm Wind	172 Countywide	7/19/1998	10:30 PM	60 kts.	0	0	20K	0
Tstm Wind	173 Batavia	11/10/1998	2:35 PM	50 kts.	0	0	3K	0
Tstm Wind	178 Countywide	4/9/1999	4:49 AM	50 kts.	0	0	10K	0
Tstm Wind	179 Amelia	5/6/1999	12:40 PM	50 kts.	0	0	3K	0
Tstm Wind	180 Countywide	6/10/1999	10:45 PM	57 kts.	0	0	500K	0
Tstm Wind	182 Amelia	6/11/1999	5:07 PM	50 kts.	0	0	16K	0
Tstm Wind	183 Goshen	6/13/1999	6:00 PM	52 kts.	0	0	6K	0
Tstm Wind	185 Goshen	7/9/1999	8:30 PM	50 kts.	0	0	3K	0
Tstm Wind	197 Loveland	4/20/2000	5:55 PM	50 kts.	0	0	5K	0
Tstm Wind	198 Bethel	4/20/2000	6:20 PM	50 kts.	0	0	5K	0
Tstm Wind	199 Perintown	6/2/2000	3:20 PM	52 kts.	0	0	4K	0
Tstm Wind	200 Monterey	6/2/2000	3:30 PM	55 kts.	0	0	15K	0
Tstm Wind	201 Owensville	6/26/2000	5:30 PM	52 kts.	0	0	3K	0
Tstm Wind	207 New Richmond	8/17/2000	10:45 PM	50 kts.	0	0	5K	0
Tstm Wind	208 Miamiville	9/20/2000	6:45 PM	50 kts.	0	0	5K	0
Tstm Wind	209 Batavia	9/20/2000	8:00 PM	50 kts.	0	0	5K	0
Tstm Wind	210 Amelia	9/23/2000	3:27 PM	50 kts.	0	0	10K	0
Tstm Wind	211 Countywide	11/9/2000	4:45 PM	50 kts.	0	0	100K	0
Tstm Wind	216 Pt Pleasant	4/6/2001	5:52 PM	50 kts.	0	0	3K	0
Tstm Wind	221 Countywide	6/12/2001	7:55 PM	55 kts.	0	0	5K	0

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Tstm Wind	222 Mt Pisgah	7/8/2001	1:18 PM	50 kts.	0	0	5K	0
Tstm Wind	223 Miamiville	7/8/2001	7:10 PM	50 kts.	0	0	3K	0
Tstm Wind	224 Felicity	7/8/2001	12:07 PM	50 kts.	0	0	10K	0
Tstm Wind	225 Milford	7/17/2001	7:53 PM	50 kts.	0	0	3K	0
Tstm Wind	226 Batavia	7/17/2001	8:50 PM	50 kts.	0	0	3K	0
Tstm Wind	228 Batavia	7/17/2001	11:20 PM	50 kts.	0	0	50K	0
Tstm Wind	232 Countywide	8/11/2001	8:10 PM	50 kts.	0	0	0	0
Tstm Wind	235 Countywide	10/24/2001	7:35 PM	50 kts.	0	0	5K	0
Tstm Wind	245 Saltair	5/7/2002	7:40 AM	50 kts.	0	0	25K	0
Tstm Wind	249 Amelia	7/29/2002	6:25 PM	51 kts.	0	0	3K	0
Tstm Wind	250 Milford	8/11/2002	4:27 PM	50 kts.	0	0	5K	0
Winter Storm	100 OHZ034>035 - 042 - 046 - 051>056 - 060>065 - 070>074 - 077>082 - 088	1/6/1996	3:00 PM	N/A	2	0	14.3M	0
Winter Storm	106 OHZ015>016 - 024>026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>082 - 088	3/19/1996	4:00 PM	N/A	1	0	0	0
Winter Storm	151 OHZ063 - 070>073 - 077>082 - 088	2/3/1998	11:00 PM	N/A	0	0	0	0
Winter Storm	174 OHZ026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>080	1/1/1999	10:00 PM	N/A	0	0	0	0
Winter Storm	175 OHZ026 - 034>035 - 042>046 - 051>056 - 060>065 - 070>074 - 077>078 - 080	1/7/1999	10:00 PM	N/A	0	0	0	0
Winter Storm	253 OHZ070>074 - 077>082 - 088	12/5/2002	3:15 AM	N/A	0	0	0	0
Winter Storm	254 OHZ070 - 078 - 082 - 088	1/16/2003	5:30 PM	N/A	0	0	0	0
TOTALS:					7	51	22.457M	550K

KEY to Table Abbreviations

Mag = Knots (1 mph = 1.15 Knots)
PrD = Property Damage

Inj = Injuries
Dth = Deaths

Appendix 2 – Flooding History in Clermont County

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Flash Flood	64 CLERMONT	8/16/1993	1730	N/A	0	1	500K	0
Flash Flood	69 Countywide	4/10/1994	720	N/A	0	0	500K	0
Flash Flood	84 Countywide	5/18/1995	935	N/A	0	0	7	0
Flash Flood	86 Countywide	5/24/1995	2000	N/A	0	0	6K	0
Flash Flood	87 CLERMONT	5/24/1995	2300	N/A	0	0	5K	0
Flash Flood	88 Countywide	5/28/1995	2345	N/A	0	0	4K	0
Flash Flood	90 CLERMONT	5/29/1995	300	N/A	0	0	7K	0
Flash Flood	91 North And West Parts	6/1/1995	2131	N/A	0	0	5K	0
Flash Flood	93 North Half	6/17/1995	1830	N/A	0	0	7K	0
Flash Flood	97 Countywide	8/9/1995	2000	N/A	0	0	5K	0
Flash Flood	111 Edenton	4/29/1996	7:00 AM	N/A	0	0	2K	0
Flash Flood	112 Countywide	5/4/1996	1:30 AM	N/A	0	0	10K	0
Flash Flood	120 Countywide	5/15/1996	9:10 PM	N/A	0	0	5K	0
Flash Flood	130 Franklin Twp	7/29/1996	8:30 PM	N/A	0	0	25K	0
Flash Flood	132 Countywide	12/1/1996	2:00 AM	N/A	0	0	0	0
Flash Flood	136 Felicity	3/1/1997	9:08 AM	N/A	0	0	10K	0
Flash Flood	138 Countywide	3/2/1997	12:30 AM	N/A	0	0	10K	0
Flash Flood	163 Felicity	6/10/1998	12:15 AM	N/A	0	0	100K	0
Flash Flood	227 Countywide	7/17/2001	11:00 PM	N/A	0	0	1.8M	0
Flash Flood	244 South Central Portion	5/7/2002	7:20 AM	N/A	0	0	3K	0
Flash Flood	246 South Portion	5/8/2002	10:15 AM	N/A	0	0	0	0
Flood	85 Milford	5/18/1995	1100	N/A	0	0	2K	0
Flood	102 OHZ024 - 034>035 - 046 - 055 - 061 - 064 - 070 - 073 - 077>082 - 088	1/17/1996	12:00 PM	N/A	0	0	187K	0
Flood	103 OHZ064 - 073 - 077>082 - 088	1/23/1996	12:00 PM	N/A	0	0	5.1M	0
Flood	110 OHZ071 - 077>078	4/29/1996	4:00 AM	N/A	0	0	11K	0
Flood	117 OHZ071 - 077>078	5/11/1996	2:00 AM	N/A	0	0	0	0
Flood	119 OHZ077>078	5/15/1996	8:00 PM	N/A	0	0	0	0
Flood	137 OHZ077>079 - 081 - 088	3/2/1997	8:30 AM	N/A	0	0	15.0M	0
Flood	142 OHZ016 - 053 - 055 - 064 - 071 - 073 - 077>078 - 081>082	6/1/1997	1:00 AM	N/A	0	0	1.0M	0
Flood	143 Countywide	6/1/1997	12:00 AM	N/A	0	0	10K	0

Type	Location or County	Date	Time	Mag	Dth	Inj	PrD	CrD
Flood	144 Batavia	6/16/1997	6:25 PM	N/A	0	0	10K	0
Flood	145 Countywide	6/18/1997	10:00 AM	N/A	0	0	5K	0
Flood	153 Countywide	4/16/1998	2:20 AM	N/A	0	0	0	0
Flood	154 OHZ071 - 078	4/16/1998	4:00 AM	N/A	0	0	0	0
Flood	164 Countywide	6/11/1998	9:55 AM	N/A	0	0	5K	0
Flood	168 Batavia	6/16/1998	11:45 AM	N/A	0	0	0	0
Flood	190 Countywide	1/3/2000	9:00 PM	N/A	0	0	50K	0
Flood	191 OHZ077>078	1/4/2000	1:00 AM	N/A	0	0	0	0
Flood	192 OHZ077>078	2/14/2000	2:00 AM	N/A	0	0	0	0
Flood	193 Countywide	2/18/2000	4:30 PM	N/A	0	0	10K	0
Flood	194 OHZ071 - 077>078	2/18/2000	7:00 PM	N/A	0	0	0	0
Flood	195 OHZ077>078	2/18/2000	9:00 PM	N/A	0	0	0	0
Flood	196 OHZ078	2/21/2000	7:00 AM	N/A	0	0	0	0
Flood	202 Bethel	7/4/2000	7:30 PM	N/A	0	0	5K	0
Flood	206 Countywide	8/9/2000	7:00 PM	N/A	0	0	5K	0
Flood	214 Countywide	12/16/2000	4:50 PM	N/A	0	0	5K	0
Flood	219 Northwest Portion	5/18/2001	3:30 PM	N/A	0	0	5K	0
Flood	220 Goshen	6/6/2001	8:30 PM	N/A	0	0	3K	0
Flood	229 OHZ078	7/18/2001	12:00 AM	N/A	0	0	0	0
Flood	230 Williamsburg	7/25/2001	8:30 PM	N/A	0	0	0	0
Flood	231 Felicity	7/26/2001	1:00 AM	N/A	0	0	0	0
Flood	233 Countywide	8/11/2001	8:15 PM	N/A	0	0	0	0
Flood	234 Batavia	8/18/2001	10:09 PM	N/A	0	0	0	0
Flood	240 OHZ044 - 078>079	4/19/2002	6:15 PM	N/A	0	0	0	0
Flood	241 OHZ073 - 077>078 - 081>082	4/21/2002	12:30 PM	N/A	0	0	0	0
Flood	243 OHZ078>082	4/28/2002	3:55 AM	N/A	0	0	0	0
Flood	247 OHZ055>056 - 077>078	5/28/2002	6:30 AM	N/A	0	0	0	0
Flood	248 OHZ056 - 072 - 077>078 - 081 - 088	6/6/2002	6:50 AM	N/A	0	0	0	0
Flood	252 OHZ051>053 - 055 - 060>062 - 070>072 - 077>078	11/10/2002	6:00 PM	N/A	0	0	0	0
Flood	255 OHZ078 - 081>082 - 088	2/22/2003	2:30 PM	N/A	0	0	0	0
TOTALS:					0	1	24.425M	0

KEY to Table Abbreviations

Dth = Deaths
Inj = Injuries

PrD = Property Damage

Appendix 3 – Core Group Meeting Summaries

Clermont County All Natural Hazard Mitigation Plan Kickoff Meeting Summary

Meeting Date: May 1, 2003

Attendees: Deb Britton, Bill Christie, Shana Stevenson, Beth Nevel, Kelly Perry, Lynn Tetley, Rick Hinson, Joe Uecker, Dave Coyle, Ray Sebastian, John Lateulere, Sara Imhulse, Jim Latchaw, Scott Peyton and Kari Mackenbach

Time: 4:30 PM - 6:15 PM

Place: Clermont County Engineers Conference Room

Beth Nevel started the meeting with an explanation of what All Natural Hazard Mitigation Planning is and why we were all invited here tonight. She explained that this is a collaborative process and need for the involvement of the Elected Officials as well as the Citizens.

Beth explained, using an example, of disasters that occurred in the past 5 years, that Clermont County had one storm do more than \$8 million in damage to infrastructure alone. She explained that this is one of the items that we will look at during the process of establishing the Clermont County All Natural Hazard Mitigation Plan.

She then introduced Jim Latchaw from FMSM Engineers as the Consulting Firm that will be helping us with the actual writing of the plan.

Jim introduced the team of people that will be working on the Clermont County plan and explained the experience that they bring with them to the table. Kari Ann Mackenbach is an Environmental Planner, Scott Peyton is a Project Engineer and Jim Latchaw is our Project Manager all of whom are with Fuller Mossbarger, Scott & May (FMSM) Engineers, Inc.

He also gave examples of recent All Natural Hazard Mitigation Projects that FMSM Engineers have developed: Hamilton County, Colerain Township and New Richmond are some of those examples.

Jim also explained that they are here to help us gather information and provide us with a summary of what that information is telling us about the risks in our area. With that he introduced Kari Mackenbach.

Kari's presentation began by describing the Disaster Mitigation Act and Federal Guidelines that we have to meet as well as the ones from FEMA, ODNR and OEMA. That all states MUST have a plan in place no later than 2004.

Kari explained that the Hazard Assessment is the largest piece of this project and falls into 2 categories: Site Specific incidents like flood prone and land slide areas, or County Wide incidents like Tornados, Storm Damage and other weather related incidents.

She discussed what the core group is and what each person needs to bring with them to each meeting. She explained that each Village, City or Township must participate to receive future mitigation funding.

FMSM has given us an outline of the tasks that need to be completed and a time line for those tasks to be completed for us to have our ANHMP in place by September 2003.

May:	Task 1:	Kickoff Meeting
	Task 2:	Gather Community Statistics
	Task 3:	Community Hazard Analysis and Assessment
June	Task 3:	Community Hazard Analysis and Assessment Continues
	Task 4:	Identify Problem Statement and Set Overall Goals
July:	Task 5:	Alternatives and Evaluation Criteria
	Task 6:	Evaluate Each Alternative and Create Matrix
	Task 7:	Prepare Draft Plan
Aug:	Task 8:	Public Participation
Sept:	Task 9:	Submit Final ANHMP

The question was asked that if a City or Village is writing their own plan and the County has a different plan that encompass different events, would the City or Village be able to receive money for an incident listed in the County plan that was not listed in the City or Village plan. The answer to that is Yes, as long as there is a mitigation plan in place the City or Village will be eligible to receive money in the future for Mitigation Funds. You simply cannot plan for every event.

There was some discussion about the need to list other types of hazards such as riots, fires etc. as we have seen in Columbus and Cincinnati in recent years. The discussion was that those types of incidents should be listed under other if necessary and would be listed in the upcoming hazard assessment plan for the Department of Homeland Security.

We then set up the dates and times for the next three meetings:

Thursday May 29th

Wednesday June 25th

Thursday July 17th

All meetings will be held at the Emergency Operations Center located at 2279 Clermont Center Drive (unless otherwise notified) from 4:30 PM to 6:30 PM.

If you have any questions or comments please feel free to contact me at 513-732-7661.

**Clermont County
All Natural Hazard Mitigation Plan
May 29, 2003 - Meeting Summary**

Meeting Date: May 29, 2003

Attendees: Deb Britton, Jim Latchaw, Joe Uecker, Kerry Schulze, Kelly Perry, Steve Pegram, Mary Wolff, Beth Nevel, Bobbi Padgett, Scott Peyton, Kari Mackenbach, Sandra Graham, Paul Braasch, Ray Sebastian, Curt Paddock, Tom Yeager, Sara Imhulse

Time: 4:30 PM - 7:00 PM

Place: Clermont County Engineers Conference Room

Beth Nevel started the meeting with an explanation of what All Natural Hazard Mitigation Planning is and a review of why we were all invited here tonight. She then introduced Jim Latchaw from FMSM Engineers.

Jim explained that tonight's meeting is the longest and most important step in the process. We are going to prioritize hazards in the order of importance and identify some of the problem statements that need to be addressed during the planning process. Jim suggested that we all read the mission statement and make suggestions if there were changes that needed to be made. No changes were suggested.

Mission Statement is as follows:

The mission of the Core Group that has been assembled to create the Clermont County All-Natural Hazards Mitigation Plan (CANHMP) is to develop a working document that fulfills the mandates of the Federal Disaster Mitigation Act of 2000, and satisfies the requirements of FEMA and the Ohio EMA, as well as meets the needs of all of Clermont County.

Further, by researching and planning for future natural hazards and implementing appropriate mitigation techniques, the County can save lives, protect property, reduce the cost of disasters, provide for a rapid and efficient recovery by coordinating response efforts, and increase the educational awareness of natural hazard events and their effects on the people, property, and resources of all of Clermont County.

For those Core Group members that were unable to make the May 29th meeting, please review it and make suggestions at the June meeting if you have concerns.

There was some discussion about the need to list other types of hazards such as riots, fires etc. as we have seen in Columbus and Cincinnati in recent years. The discussion was that those types of incidents should be listed under "other" if necessary.

The Core Group decided that the Severe Storms are probably the most common type of Natural Hazard that occurs in Clermont County due to the fact that most of the damages are not reported. If you mitigate on this type of item it also makes the Flooding items easier to deal with the next time one occurs.

A vote was taken for the order of importance. FMSM had provided us with the following matrix on actual events that have happened in the recent past in Clermont County.

As discussions progressed we decided to switch the order of Drought and Earthquakes due to the fact that there are greater chances of a Drought than Earthquake.

Severe Storms

Citizen awareness and outreach – education and public announcements
 Citizen apathy
 Ice/snow travel
 Power outages from above ground utilities
 Grid vs. spurred system
 Lack of sufficient design regulations to account for catastrophic storms
 Inadequately sized infrastructure – culverts
 25-year storm
 Ditch maintenance issues – people piping ditches
 Inadequate inventory/preparation (salt)
 Emergency services/live saving services are stretched thin during floods
 Lack of severe storm recovery – operations planning
 Communication between communities
 Setting different condition levels
 Evaluation of salt alternatives
 Lightning detection equipment
 Erosion issues leading to landslides
 Exacerbated by culverts and infrastructure

Initial Hazard Assessment	No. of Events	Cost in Millions
Floods (1950-2003)	60	24.425
Flash Floods	21	3.012
100-Year / Non Floodzone Floods	39	21.413
Tornadoes (1950-2003)	12	5.66
Severe Storms (1950-2003)	177	22.457
Winter Storms	17	16.041
T-Storms / High Winds / Lightning	122	3.378
Ice	5	0.4
Hail	33	2.638
Landslides (ODOT District 8)	15 per year	
Earthquakes (1804, 1859, and 1864)	3 epicenters	
Droughts, Excessive Heat, and Extreme Cold (1950-2003)	6	1.402

Flooding

Flash Flooding
 Inadequate storm sewer system
 Public education – driving through water
 Children playing in storm water facilities and high water areas
 Water in roads – high water signs
 Surface water in basements
 Debris cleaning
 Redirected storm water from street resurfacing
 Illegal filling in storm water ditches
 Channelization – moving problems downstream
 Non-flood-zone Flooding
 Increased development
 Inadequate design standards
 Updated flood maps are already old
 Repetitive losses
 Dam operation issue on East Fork – lack of communication with Corps
 Water is retained longer – erosion – siltation
 100-year Flood-zone Flooding
 Lack of warning system

- Critical facilities in floodplain (waste water)
- Well fields
- Infrastructure (critical roads) in floodplain
- NFIP maps outdated
- Solid waste storage in floodplain
- Business disruption
- Debris Removal
- Lack of contingency plans

Tornadoes

- Interoperable countywide warning system (aging)
- Debris removal
- Lack of designated tornado shelters
- Lack of public education for using weather radios
- Ohio Department of Health requiring shelters in mobile home parks
- Lack of personnel to clean up – leads to community strain

Landslides

- Roadways and other infrastructure in high hazard areas – some are repetitive loss
- Erosion issues
- Lack of education
- Improper grading of hillsides etc....
- Lack of permanent solutions for landslide areas
- Buffer Zones for building
- Lack of regulations for roadways and other infrastructure in hazard areas
- Federal and state agencies not following regulations
- Lack of care taken in development techniques in landslide areas

Droughts

- Lack of public education
- Urban/wildlife interface
- Lack of site layout, fire areas around homes
- Dry hydrant systems
- Lack of shelters from extreme heat/cold
- Sensitive population outreach
- Infrastructure (pipes) and basement damage

Earthquakes

- Lack of education

Other Non-Natural Hazards

- Riots
- Fire/arson
- West Nile
- SARS
- Hazardous material spills
- Nuclear waste spills
- Hazardous waste landfill

Below are the items that still need to be addressed by the Core Group to complete the project before the September Deadline. We need your help at the June meeting to complete these tasks, so please don't forget to mark your calendars for the next meeting dates and times:

Wednesday June 25th

Thursday July 17th

All meetings will be held at the Engineers Conference Room located at 2381 Clermont Center Drive (unless otherwise notified) from 4:30 PM to 6:30 PM.

If you have any questions or comments please feel free to contact me at 513-732-7661.

**Clermont County
All Natural Hazard Mitigation Plan
June 25, 2003 - Meeting Summary**

Meeting Date: June 25, 2003

Attendees: Kelly Perry, Deb Britton, Jim Latchaw, Shana Stevenson, Jim Shafer, Joe Uecker, Sara Imhulse, John Lateulere, Mark Planck, Ray Sebastian, Curt Paddock, Robert Haundra, Beth Nevel, Lynn Tetley, Kerry Schulze, Larry Evans, Kathy Turner, Kari Mackenbach, Scott Peyton, and Beth Nevel

Time: 4:30 P.M. - 7:00 P.M.

Place: Clermont County Engineers Conference Room

Jim Latchaw from FMSM Engineering did introductions for those new attendees. Explained what has been done up to this point and what our goals is from here out in regard to the plan.

Information on non-natural (human caused) disasters were handed out. There was some discussion about additional problem statements such as reviewing water safety and security information.

There was also some information that Kari handed out that was from the US EPA on vulnerability assessments for after treatment water supply. She encouraged everyone to look at the information and think about how we can better prepare for or prevent water supply tampering.

We then agreed to discuss and start writing sample problem statements and proposed mitigation alternatives for Clermont County.

**DRAFT PROBLEM STATEMENTS AND PROPOSED MITIGATION ALTERNATIVES
FOR CLERMONT COUNTY**

SEVERE STORMS

The Core Group has prioritized this hazard as their highest rated concern. Severe storms occur throughout the year in Clermont County, and historically have had a drastic impact on the community.

Core Group Developed Problem Statements and Mitigation Alternatives

Problem Statement – There is a lack of citizen awareness and outreach through public service announcements (PSA's) and other education in Clermont County as they relate to severe storms.

Mitigation Alternative – Coordinate countywide PSA's that deliver the same message on the public access channel to heighten awareness on severe storms. Possibly direct messages to school age children.

Problem Statement – Clermont County residents are accustomed to dealing with severe storms, which creates some apathy as it relates to the seriousness of an event.

Mitigation Alternative – Expand weather radio distribution program and focus an outreach program on school age children.

Problem Statement – There are frequent power outages in above ground utilities and from the spurred system (versus a grid system) that exists in Clermont County.

Mitigation Alternative – Change the system from a spurred to a grid system or bury existing utilities. Streamline service from CG&E and Cinergy by establishing countywide service level agreements.

Problem Statement – There is a lack of design regulations to account for catastrophic storms (i.e. 500-year storm).

Mitigation Alternative – Modify existing regulations to convey larger flood events.

Problem Statement – Much of the existing infrastructure in Clermont County is undersized. Most culverts are designed for the 25-year storm.

Mitigation Alternative – Modify existing regulations to convey larger flood events.

Problem Statement – There are numerous ditch maintenance issues including residents not maintaining ditches and residents piping ditches.

Mitigation Alternative – Use educational outreach (PSA's) to teach residents the importance of ditch maintenance and piping. Coordinate outreach with SWCD. Create a "hotspot" database.

Problem Statement – There is inadequate supply inventory and preparation to deal with some storm events (i.e. salt).

Mitigation Alternative – Develop a memorandum of understanding (MOU) between jurisdictions to share resources and for cities, villages, and townships to stockpile salt for their use during severe storms. Make available resource lists for all communities. Evaluate storms of record and plan for them accordingly.

Problem Statement – Emergency response resources are strained when a severe storm event occurs in Clermont County, which causes problems in response time and communications between emergency response entities.

Mitigation Alternative – Update the storm mode policy and Operating Conditions (OpCon). Examine the need for an additional flooding emergency line to determine emergencies and to gather information.

Problem Statement – There is a lack of communication between communities and operations planning for severe storm recovery.

Mitigation Alternative – Develop an MOU between communities to plan for severe storm recovery.

Problem Statement – There is often confusion about the severity of the storms, so there is a need to develop several condition levels for severe storm events.

Mitigation Alternative – Endorse the existing "Operating Conditions" (OpCon 1-5).

Problem Statement – There is a lack of evaluation of salt alternatives.

Mitigation Alternative – Although some alternatives may be cost prohibitive, they should be evaluated in greater detail.

Problem Statement – There is a lack of lightning detection equipment in Clermont County.

Mitigation Alternative – Seek funding to develop countywide lightning detection system in Clermont County parks.

Overall Goal: To save lives, reduce potential damage, and to increase awareness of the hazards of severe storms.

FLOODING (Including 100-year flood zone, non-flood zone, and flash flooding)

The Core Group has decided to prioritize the natural hazard of flooding as their second highest rated concern. Flooding occurs throughout the year in Clermont County and has had drastic effects on several communities in the county.

Core Group Developed Problem Statements

Flash Flooding

Problem Statement – There is generally a lack of awareness and educational campaigns as it relates to non-flood zone, 100-year flood zone, and flash flooding in the County, and there are currently no initiatives to educate residents of these occurrences.

Mitigation Alternative – Widen distribution of video for school age children and develop one for adults.

Problem Statement – There is an inadequate storm sewer system in some parts of Clermont County.

Mitigation Alternative – Establish storm water master plan and storm water utility.

Problem Statement – There is little or no effort to make the general public aware of high hazard areas through an educational program.

Mitigation Alternative – Widen distribution of video for school age children and develop one for adults.

Problem Statement – Youth play in high flood hazard areas. There needs to be further education focused on youth and the general public about the potential for danger.

Mitigation Alternative – Widen distribution of video for school age children and develop one for adults. Seek funding to build water facilities in parks (include water safety).

Problem Statement – There is a lack of high water signage in areas that often are affected by flooding.

Mitigation Alternative – Evaluate locations for signage at repeated high water locations.

Problem Statement – Basement flooding is a problem throughout the County during flooding and storm events.

Mitigation Alternative – Use education and outreach to alleviate some flooding problems. Expand existing sump pump programs.

Problem Statement – Residents often drive through standing floodwaters.

Mitigation Alternative – Issue tickets and fines for vehicles in flood hazard areas. Expand depth of water gauge program. Increase Education.

Problem Statement – Debris cleaning after a flood event continues to be a problem throughout the county.

Mitigation Alternative – Evaluate and expand the countywide debris management and post disaster clean up plan.

Problem Statement – Storm water is often rerouted by street resurfacing which impedes the storm sewer and drainage ditches.

Mitigation Alternative – Resurfacing projects may need to pass through storm water review before approval.

Problem Statement – Illegal filling of storm water ditches and channelization occurs throughout the County.

Mitigation Alternative – Use educational outreach (PSA's) to teach residents the importance of ditch maintenance and piping. Coordinate outreach with SWCD. Create a "hotspot" database.

Non-flood Zone Flooding

Problem Statement – There is increased development throughout the county leading to increased amounts of runoff and limited NFIP maps in those areas.

Mitigation Alternative – Seek funding for NFIP maps updates. Update regulations as they relate to runoff amounts.

Problem Statement – There is a need to update NFIP maps throughout the County.

Mitigation Alternative – Seek funding for NFIP maps updates.

Problem Statement – Flooding repeatedly damages existing structures in 100-year flood plain.

Mitigation Alternative – Target repetitive loss structures for buyouts and other mitigation alternatives.

Problem Statement – There are some dam operation issues on the East Fork due to limited communication with the Corps leading to erosion and siltation (flooding may also be exacerbated by reservoir releases).

Mitigation Alternative – Develop an MOU with the Corps of Engineers.

100-year Flood Zone Flooding

Problem Statement – Clermont County lacks a countywide, interoperable flood warning system.

Mitigation Alternative – Seek funding to install a countywide, interoperable flood warning system; evaluate the types of systems and the needs of Clermont County.

Problem Statement – Some critical facilities are located in the 100-year flood plain, which, in the event of a flood, may not be able to function in their needed capacity (i.e. well fields and waste water plants).

Mitigation Alternative – Create maps of critical facilities in the flood plain. Evaluate the need to relocate the structures.

Problem Statement – Waste is stored in the flood plain, which can lead to contamination.

Mitigation Alternative – Evaluate the need for establishing new flood plain regulations to address this issue.

Overall Goal: To save lives, reduce flood damage to property, and to increase education (awareness) in the community.

At 7:00 p.m. the group agreed to adjourn and continue at the next meeting starting with Tornadoes. As you will see in the list above, the problem statements are present as we discussed them as well as a line for mitigation alternatives. For those items that were discussed at the June meeting those suggested alternatives are listed. Any problem statement that does not have a mitigation alternative listed will need to be addressed at the July meeting.

Below are the items that still need to be addressed by the Core Group to complete the project before the September Deadline. We need your help at the July meeting to complete these tasks, so please don't forget to mark your calendars for the next meeting date and time:

The next meeting will be held at the Engineers Conference Room located at 2381 Clermont Center Drive (unless otherwise notified) on Thursday, July 17th from 4:30 P.M. to 6:30 P.M..

If you have any questions or comments please feel free to contact me at 513-732-7661.

**Clermont County
All Natural Hazard Mitigation Plan
July 17, 2003 - Meeting Summary**

Meeting Date: July 17, 2003

Attendees: Deb Britton, Beth Nevel, Kari Mackenbach, Scott Peyton, Sandy Graham, Kerry Schulze, Dan Freeman, Mark Planck, Steve Pegram and Jim Shafer

Time: 4:30 P.M. - 6:30 P.M.

Place: Clermont County Engineers Conference Room

Kari Mackenbach from FMSM Engineering did introductions for the new attendee. Explained what has been done up to this point and what our goals is from here out in regard to the plan. We agreed to start where we left off with problem statements and Mitigation Alternatives for Clermont County. Below you will see them complete list of problem statements as well as Mitigation Alternatives.

**PROBLEM STATEMENTS AND PROPOSED MITIGATION ALTERNATIVES FOR
CLERMONT COUNTY
TORNADOES**

The Core Group has prioritized the natural hazard of tornadoes as their third highest concern. Tornadoes occur sporadically throughout the County, which has limited capacity to handle the damages caused by this hazard.

Core Group Developed Problem Statements

Problem Statement – There is a lack of an all inclusive and interoperable warning system throughout Clermont County.

Mitigation Alternative – Seek funding for a countywide interoperable warning system.

Problem Statement – There is a lack of public education and outreach to the general public concerning tornadoes and the use of weather radios.

Mitigation Alternative – Create innovative PSA's on the use of weather radios and seek funding to place weather radios in all critical facilities.

Problem Statement – There is a lack of designated tornado shelters in Clermont County.

Mitigation Alternative – Develop PSA's to reaffirm existing tornado shelter locations. Seek funding to install multi-use shelters in parks. Work with mobile home parks to install tornado shelters.

Problem Statement – The Ohio Department of Health does not require tornado shelters or permanent structures near mobile home communities.

Mitigation Alternative – Evaluate the potential for the State Board of Health to change the requirements.

Overall Goal: To save lives, reduce potential damage, and to increase awareness of the hazards of tornadoes.

LANDSLIDES

The Core Group has prioritized the natural hazard of landslides as their fourth highest concern. Landslides happen often in Clermont County and are exacerbated by other natural hazards, such as flash floods and severe storms.

Core Group Developed Problem Statements

Problem Statement – Roadways and other infrastructure are in high hazard areas incurring high cost and disrupting traffic (some are repetitive loss items). Infrastructure is often fixed with a short-term solution because of time and cost; this practice can lead to repeated landslide events in some locations.

Mitigation Alternative – Seek innovative, long-term solutions to landslide problems.

Problem Statement – Removal of vegetation and cutting hillsides for homes, businesses, and roads is leading to erosion that exacerbates landslide problems.

Mitigation Alternative – Work with the Planning Department to develop standards and regulations for development in landslide prone areas.

Problem Statement – There are few educational awareness activities showing how landslides are particularly associated with other hazards. (i.e. flood events can trigger a landslide).

Mitigation Alternative – Develop innovative PSA's targeted at school age children and those affected by landslides. Develop a flyer for people who wish to build in landslide prone areas.

Problem Statement – There is a lack of building buffer zones and countywide regulations for developing and building in high hazard areas.

Mitigation Alternative – Work with the Planning Commission to create a landslide potential overlay zone.

Problem Statement – Regulations for building roadways and other infrastructure in landslide areas are not always followed by federal and state agencies.

Mitigation Alternative – Work with the Engineer's office to create an MOU with other agencies.

Problem Statement – There is a lack of care taken in development techniques in landslide areas.

Mitigation Alternative – Work with the Planning Department to develop standards and regulations for development in landslide prone areas.

Overall Goal: To save lives, increase education on appropriate building, and to develop adequate controls regulating communities and private landowners from building in high hazard areas.

DROUGHTS

The Core Group has decided to prioritize the natural hazard of droughts and wildfires as their fifth highest concern. Droughts can happen in Clermont County, and the potential for crop damage and property damage from fires can be high.

Core Group Developed Problem Statements

Problem Statement – No public education programs on droughts or wildfires exist in Clermont County.

Mitigation Alternative – Coordinate with the Fire Service Alliance for outreach concerning droughts and wildfires.

Problem Statement – Urban/residential and natural areas interface in many areas of Clermont County increasing the potential for wildfires to cause property damage.

Mitigation Alternative – Develop a map showing the urban and natural area interface.

Problem Statement – Site layout of neighborhoods and homes is poor; a fire/buffer zone should surround the home.

Mitigation Alternative – Work with the Planning Commission to create a buffer zone regulation to prevent the spread of wildfires.

Problem Statement – Dry hydrant systems may be inadequate to deal with wildfires.

Mitigation Alternative – Seek funding to identify locations and installation of dry hydrants. Develop a PSA to define the use of dry hydrants (work with SWCD).

Problem Statement – Sensitive population outreach should be focused on during extreme hot and cold periods in Clermont County.

Mitigation Alternative – Develop a critical facilities map.

Problem Statement – Droughts can lead to infrastructure (pipes) and basement damage.

Mitigation Alternative – Develop a PSA concerning watering foundations.

Overall Goal: To save lives, increase awareness of how droughts can increase the risk of wild fires, and to be better prepared to deal with this hazard event.

EARTHQUAKES

The Core Group has decided to prioritize the natural hazard of earthquakes as their sixth highest concern. Earthquakes rarely happen in Clermont County, but the potential for damages from earthquakes is great.

Core Group Developed Problem Statements

Problem Statement – There are little or no public awareness campaigns occurring in the County as they relate to the seriousness of earthquakes and how an earthquake could affect the community as a whole.

Mitigation Alternative – Develop a PSA concerning the effects of earthquakes in Clermont County; target school age children.

Overall Goal: To save lives, reduce potential damage, and to increase awareness.

Other Non-natural Hazards

The Core Group wishes to discuss the following non-natural hazards in the mitigation plan:

- Riots
- Fire/arson
- West Nile
- SARS

Hazardous materials spills
Nuclear waste spills
Hazardous waste landfill

In the next few days you will be receiving the Matrix that will need to be returned to me no later than August 12, 2003. We have also scheduled the public meeting for September 16, 2003 it will be held at the Engineers Conference Room located at 2381 Clermont Center Drive from 4:30 P.M. to 6:30 P.M.

If you have any questions or comments please feel free to contact me at 513-732-7661.

Appendix 4 – Planning Process Participation Invitations

Jurisdiction/ Agency	First Name	Last Name	Title	Jurisdiction/ Agency	First Name	Last Name	Title
Batavia Twp			Twp Administrator	Miami Township	Mary	Makley Wolff	Trustee
Clermont County	Bobbi	Padgett	OPI	Milford, City of	Sarah	Imhulse	Asst. to City Mgr.
Clermont County	Debbie	Britton	Admin Support Tech	Monroe Township	Joyce Ann	Richardson	Trustee
Clermont County	Paul	Braasch	OEQ	Ohio Township	Rick	Hinson	Trustee
Clermont County	Tom	Yeager	Water & Sewer	Pierce Township	Dave	Coyle	Administrator
Clermont County	Joe	Uecker	Engineer	Stonelick Township	Terry	Hoerth	Secretary
Clermont County	Beth	Nevel	Director of DPSS	Tate Township	Rick	Stowell	Fire Department
Clermont County	Stephen	Rabolt	Director of OTCS	Union Township	Ken	Gies	Administrator
Clermont County	Ray	Sebastian	Building	Village of Amelia	Kerry	Schultze	Zoning
Clermont County	Kelly	Perry	GIS	Village of Batavia	Larry	Evans	Trustee
Clermont County	Scott	Croswell	Commissioner	Village of Batavia	Robert	Handra	Trustee
Clermont County	Kathy	Lehr	OPI	Village of Batavia	Kathy	Turner	Trustee
Clermont County	Bob	Proud	Commissioner	Village of Bethel	Mark	Planck	Fire Department
Clermont County	Mary	Walker	Commissioner	Village of Bethel	Judy	Spiller	Mayor
Clermont County	Pat	Manger	Engineer	Village of Chilo	Shana	Stevenson	Mayor
Clermont County	Curt	Paddock	Planning	Village of Felicity	Jim	Shafer	
Fischer Homes	John	Lateulere	Resident	Village of Moscow	Dan	Freeman	Administrator
FMSM Engineers	Jim	Latchaw	Project Manager	Village of Neville	Betty	Lucas	Mayor
FMSM Engineers	Kari Ann	Mackenbach	Env. Planner	Village of New Richmond	Terry	Durette	Mayor
FMSM Engineers	Peyton	Scott	Project Engineer	Village of Newtonsville	Don	Pringle	Mayor
Franklin Township	James	Napier	Trustee	Village of Owensville	John	Mathews	Mayor
Goshen Township	Sandy	Graham	Clerk	Village of Williamsburg	Lynn	Tetley	Administrator
Jackson Township	William	Christie	FD Lt.	Washington Township	Sandy	Haverland	Administrator
Loveland Symmes Fire	Capt. Steve	Pegran	Fire Department	Wayne Township	Paul	Richey	Trustee
Loveland, City of	Fred	Enderly	City Manager	Williamsburg Township	Jim	Taylor	Vice Chairman

Appendix 5 – Notification to Adjacent Communities (copy)

Below is an example of the notification letter that was sent to neighboring counties.



BOARD OF COUNTY COMMISSIONERS
CLERMONT COUNTY, OHIO

ROBERT L. PROUD

MARY C. WALKER

R. SCOTT CROSWELL III

August 25, 2004

Mr. Don Maccarone, CEM
Hamilton County EMA
2377 Civic Center Drive
Cincinnati, Ohio 45231
(513) 851-7080
don.maccarone@ema.hamilton-co.org



The purpose of this letter is to notify adjacent counties that Clermont County is actively developing a Countywide Natural Hazard Mitigation Plan or CNHMP. The purpose of the CNHMP is to allow all of Clermont County to better plan for natural hazard events. We are also using our CNHMP to meet the mandates of the Federal Disaster Mitigation Act of 2000. We are in the process of developing a working plan that would meet the needs of Clermont County, and not be merely a "shelf document".

We have been advised to notify adjacent communities of this activity. **Therefore, let this letter serve as notification to adjacent communities that Clermont County is actively developing a Countywide Natural Hazard Mitigation Plan, or CNHMP.** We anticipate holding a public meeting on the draft plan on September 16, 2003 at the Engineers Conference Room located at 2381 Clermont Center Drive, Batavia, OH 45103, and providing a 30-day comment period.

Please contact us as necessary with any questions, comments, concerns or for more information on this issue.

Sincerely,

Beth Nevel

Appendix 6 – Critical Facilities Lists Submitted by Clermont County GIS

COUNTY FACILITIES				
FACILITY	ADDRESS	CITY	STATE	ZIP
Clermont County Sheriff	4470 SR 222	Batavia	OH	45103
Adult Detention	4700 E. Filager	Batavia	OH	45103
County Engineer	2381 Clermont Center Dr	Batavia	OH	45103
Service Center	4430 SR 222	Batavia	OH	45103
Clermont Transportation Connection (CTC)	4440 SR 222	Batavia	OH	45103
Humane Society/Animal Shelter/Dog Pound	4444 Filager	Batavia	OH	45103
Sewer/Earth Tech/Haskell	4386 Haskell Ln.	Batavia	OH	45103
Clermont College	4200 Clermont College Dr.	Batavia	OH	45103
Driver's License Bureau	145 Foundry Ave.	Batavia	OH	45103
Board of Commissioners / Administration	101 E. Main St	Batavia	OH	45103
Board of Elections	76 S. Riverside Dr	Batavia	OH	45103
Auto Title (Batavia Branch)	221 E. Main St.	Batavia	OH	45103
Municipal Court	289 E. Main St.	Batavia	OH	45103
Public Defender	10 S. Third St.	Batavia	OH	45103
Clermont County Library (Batavia Branch)	180 S. Third St.	Batavia	OH	45103
Common Pleas Court	270 E. Main St.	Batavia	OH	45103
Prosecutor	123 N. Third St.	Batavia	OH	45103
Social Security Administration	1050 Hospital Dr.	Batavia	OH	45103
State Highway Patrol	1000 Hospital Dr	Batavia	OH	45103
Clermont Recovery Center	1088 Wasserman Dr	Batavia	OH	45103
Clermont Mercy Hospital	3000 Hospital Dr	Batavia	OH	45103
Medical Social Services	2400 Clermont Center Dr	Batavia	OH	45103
Planning/Sewer Admin/OEQ	2379 Clermont Center Dr	Batavia	OH	45103
Juvenile Court	2340 Clermont Center Dr	Batavia	OH	45103
Juvenile Detention	2339 Clermont Center Dr	Batavia	OH	45103
DPSS/E911	2279 Clermont Center Dr	Batavia	OH	45103
Permit Central / Health Dist. / Buildin	2275 Bauer Rd	Batavia	OH	45103
Adult Probation (Common Pleas)	48 N Market St	Batavia	OH	45103
Domestic Relations Court	2340 Clermont Center Dr.	Batavia	OH	45103
Tax Map	101 E. Main St.	Batavia	OH	45103
Clermont County Recorder	101 E. Main St.	Batavia	OH	45103
Clermont County Treasurer	101 E. Main St.	Batavia	OH	45103
Clermont County Auditor	101 E. Main St.	Batavia	OH	45103
Probate Court	76 S. Riverside Dr.	Batavia	OH	45103
Veterans Services	76 S. Riverside Dr.	Batavia	OH	45103

DAYCARES				DAYCARES			
STREET	CITY	ST	ZIP	STREET	CITY	ST	ZIP
4506 SCHOOLHOUSE RD.	BATAVIA	OH	45103-	937 ST. RT. 28	MILFORD	OH	45150-
2463 JACKSON PIKE	BATAVIA	OH	45103-	3520 CENTRAL PARKWAY	CINCINNATI	OH	45223-
2531 ST. RT. 28	PLEASANT PLAIN	OH	45162-	4132 MT. CARMEL-TOBASCO RD	CINCINNATI	OH	45255-
984 CRISFIELD DR.	CINCINNATI	OH	45245-	5956 BUCKWHEAT ROAD	MILFORD	OH	45150-
2185 ST. RT. 133	BETHEL	OH	45106-	4308 BATAVIA MEADOWS DR. #11	BATAVIA	OH	45103-
4253 MOORE MARATHON RD.	GOSHEN	OH	45122-	212 MARKET STREET	NEW RICHMOND	OH	45157-
4295 GARY LN.	BATAVIA	OH	45103-	2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-
2743 JACKSON PK.	BATAVIA	OH	45103-	4288 NORTH ELLIS ROAD	BATAVIA	OH	45103-
4308 BATAVIA MEADOWS RD.#9	BATAVIA	OH	45103-	8516 BEECHMONT AVENUE	CINCINNATI	OH	45230-
2207 GARRISON RD.	AMELIA	OH	45102-	114 SULPHUR SPRINGS DRIVE	BATAVIA	OH	45103-
PO BOX 216	BETHEL	OH	45106-	11945 MASON ROAD	CINCINNATI	OH	45249-
784 OLD ST. RT. 74	CINCINNATI	OH	45245-	3274 WESTBOURNE AVENUE	CINCINNATI	OH	45248-
1263 B OHIO PIKE	AMELIA	OH	45102-	12065 MONTGOMERY ROAD	CINCINNATI	OH	45249-
2000 FORD CIRCLE SUITE C	MILFORD	OH	45150-	2805 SALT AIR MAPLE RD.	BETHEL	OH	45106-
2085 B FRONT WHEEL DRIVE	BATAVIA	OH	45103-	10632 LOVELAND MADIERA RD.	LOVELAND	OH	45140-
1802 OHIO PIKE	AMELIA	OH	45102-	2850 WINSLOW AVE.	CINCINNATI	OH	45206-
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	2094 OAK CORNER ROAD	HAMERSVILLE	OH	45130-
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	2315 LOSANTIVILLE AVE.	CINCINNATI	OH	45237-
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	UNIVERSITY OF CINCINNATI	CINCINNATI	OH	45221-0105
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	756 OHIO PIKE	CINCINNATI	OH	45245-
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	555 CINCINNATI-BATAVIA PK.	CINCINNATI	OH	45244-
455 WARDS CORNER	LOVELAND	OH	45140-	5650 GIVEN ROAD	CINCINNATI	OH	45243-
4200 CLERMONT COLLEGE DR.	BATAVIA	OH	45103-	7201 WOOSTER PIKE	MARIEMONT	OH	45227-
3396 MAUCH RD.	AMELIA	OH	45106-	P.O. BOX 216	MILFORD	OH	45150-
1965 ST. RT. 125	AMELIA	OH	45102-	204 BRYANT LANE	WILLIAMSBURG	OH	45176-
6700 GOSHEN RD.	GOSHEN	OH	45122-	533 CLOUGH PIKE	CINCINNATI	OH	45244-
681 MT MORIAH DR.	CINCINNATI	OH	45245-	4363 BEECHMONT DRIVE	CINCINNATI	OH	45244-
509 RONEY LANE	CINCINNATI	OH	45244-	550 & 600 LOVELAND-MADERIA	LOVELAND	OH	45140-
1607 ST. RT. 28	LOVELAND	OH	45140-	4391 ELICK LANE	BATAVIA	OH	45103-
1392 ST. RT. 131	MILFORD	OH	45150-	3086 PARK ROAD	GOSHEN	OH	45122-
1184 WITT ROAD	CINCINNATI	OH	45230-	1119 BROADVIEW	MILFORD	OH	45150-
10695 LOVELAND-MADEIRA RD	LOVELAND	OH	45140-	301 EDGEComb APT. 2	MILFORD	OH	45150-
2075 FRONT WHEEL DR.	BATAVIA	OH	45103-	55 VAN FLEET DRIVE	AMELIA	OH	45102-
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	489 FELICITY-CEDRON	GEORGETOWN	OH	45121-
1345 FRANK-WILLIS MEM. RD.	NEW RICHMOND	OH	45157-	13719 TODDS RUN-NEW HARMONY	WILLIAMSBURG	OH	45176-

DAYCARES				DAYCARES			
STREET	CITY	ST	ZIP	STREET	CITY	ST	ZIP
4712 BEECHWOOD ROAD #3	CINCINNATI	OH	45244-	208 MAIN STREET	NEW RICHMOND	OH	45157-
5510 GARRETT DRIVE	MILFORD	OH	45150-	1122 South Timber Creek Driv	Milford	oh	45150-
997 READING ROAD	MASON	OH	45040-	174 CARDINAL DRIVE	CINCINNATI	OH	45244-
332 BROOKHAVEN	CINCINNATI	OH	45125-	STATE ROUTE 68 SOUTH	FAYETTEVILLE	OH	45118-
3235 MT. CARMEL ROAD	CINCINNATI	OH	45244-	4450 MT. CARMEL-TOBASCO RD	CINCINNATI	OH	45244-
3700 STATE ROUTE 125	BETHEL	OH	45106-	19 WILLIAMS AVENUE	LOVELAND	OH	45140-
81 Wolfer Drive	Amelia	Oh	45102-	2179 EAST OHIO PIKE	AMELIA	OH	45102-
9500 Snider Road	Mason	Oh	45040-	4671 NORTHRIDGE DRIVE	BATAVIA	OH	45103-
3515 CONCORD HENNING MILL	WILLIAMSBURG	OH	45176-	41 CRESTVIEW	MILFORD	OH	45150-
1905 MISTY HILLS DRIVE	CINCINNATI	OH	45240-	703 U.S. 52	NEVILLE	OH	45156-
1130 FLICK LANE	BATAVIA	OH	45103-	112 FINLAY STREET	CINCINNATI	OH	45210-
2075 FRONT WHEEL DRIVE	BATAVIA	OH	45103-	1296 WHITE OAK	AMELIA	OH	45102-
11499 CHESTER ROAD STE 2102	CINCINNATI	OH	45246-	6370 BELFAST ROAD	GOSHEN	OH	45122-
1313 Ohio Pike	Amelia	Oh	45102-	3919 WOLF CREEK LANE	AMELIA	OH	45102-
1850 STATE ROUTE 28	GOSHEN	OH	45122-	1313 SCHUMARD	CINCINNATI	OH	45215-
3978 MACK ROAD	FAIRFIELD	OH	45014-	8 Pine View Drive	Amelia	OH	45102-
3254 E KEMPER ROAD	CINCINNATI,	OH	45241-	3310 Cole Road	New Richmond	Oh	45157-
6569 SHILOH ROAD	GOSHEN	OH	45122-	6044 GOSHEN ROAD	GOSHEN	OH	45122-
2284 BETHEL-NEW RICHMOND RD	BETHEL	OH	45106-	718 OLD STATE ROUTE 32	BATAVIA	OH	45103-
3654 WOODFORD ROAD	CINCINNATI	OH	45213-	414 MILLBORO SPRINGS	BATAVIA	OH	45103-
2106 HUNTERS POINT LANE	CINCINNATI	OH	45244-	6567 SHILOH ROAD	GOSHEN	OH	45122-
974 U.S. 52	NEW RICHMOND	OH	45157-	2165 HOWSER ROAD	MOSCOW	OH	45153-
1730 MEARS AVENUE	CINCINNATI	OH	45230-				

NURSING HOMES				
NAME	ADDRESS	CITY	STATE	ZIP
Arbors at Milford Assisted Living	5900 Meadowcreek Dr	Milford	OH	45150
Arbors at Milford Nursing Care	5900 Meadowcreek Dr	Milford	OH	45150
Batavia Nursing & Convalescent Center	4000 Golden Age Dr	Batavia	OH	45103
Cedar Creek	5411 Fomorin Rd	Williamsburg	OH	45176
Clermont Mercy Hospital	3000 Hospital Dr	Batavia	OH	45103
Clermont Nursing & Convalescent Ctr	934 SR 28	Milford	OH	45150
Dobbins Nursing Home	400 Main St	New Richmond	OH	45157
Eastgate Health Care Center	4400 Gleneste Withamsville Rd	Cincinnati	OH	45245
Mellonridge	1659 SR 28	Goshen	OH	45122
Morris Nursing Home	322 S Charity St	Bethel	OH	45106
SEM Haven Health Care Center	225 Cleveland Ave	Milford	OH	45150
SEM Terrace Health Care Center	5371 S Milford Rd	Milford	OH	45150
Southwestern Ohio Developmental Center	4399 E Bauman Lane	Batavia	OH	45103
Sunrise Manor & Convalescent Center	3434 SR 132	Amelia	OH	45102
Williamsburg Residential Alternatives 1	185 Curry Dr	Williamsburg	OH	45176
Williamsburg Residential Alternatives 2	205 Curry Dr	Williamsburg	OH	45176
Williamsburg Residential Alternatives 3	795 E Main St	Williamsburg	OH	45176
Williamsburg Residential Alternatives 4	85 E Main St	Williamsburg	OH	45176
SEM Villa Health Care Center	201 Mound Street	Milford	OH	45150

SCHOOLS				
SCHOOL	ADDRESS	CITY	ST	ZIP
Amelia Elementary School	5 E Main St	Amelia	OH	45102
Amelia Middle School	1341 Clough Pike	Batavia	OH	45103
Amelia High School	1351 Clough Pike	Batavia	OH	45103
Batavia Elementary School	215 Broadway	Batavia	OH	45103
Batavia High School	1 Bulldog Pl	Batavia	OH	45103
Batavia Middle School	800 Bauer Ave	Batavia	OH	45103
William Bick Elementary School	101 Fossyl Dr	Bethel	OH	45106
Ebon C Hill Middle School	150 Fossyl Dr	Bethel	OH	45106
Bethel Tate High School	649 Plane St	Bethel	OH	45106
Boyd E Smith Elementary School	1052 Jer-Les Dr	Milford	OH	45150
Brantner Lane Elementary School	609 Brantner Ln	Cincinnati	OH	45244
Christian Center Academy Elementary	509 Roney Ln	Cincinnati	OH	45244
Clough Pike Elementary School	808 Clough Pike	Cincinnati	OH	45245
Clermont Northeastern High School	5327 Hutchinson Rd	Batavia	OH	45103
Clermont Northeastern Intermediate	5347 Hutchinson Rd	Batavia	OH	45103

SCHOOLS				
SCHOOL	ADDRESS	CITY	ST	ZIP
Clermont Northeastern Middle School	2792 US 50	Batavia	OH	45103
Clermont Northeastern Primary School	463 South Broadway	Owensville	OH	45160
Children's Meeting House Elementary	931 O'Bannonville Rd	Loveland	OH	45140
Eastern Hills Educational Building	4132 Mt Carmel-Tobasco	Cincinnati	OH	45255
Felicity-Franklin Local School	415 Washington St	Felicity	OH	45120
Felicity-Franklin Local High School	415 Washington St	Felicity	OH	45120
Glen Este High School	4342 Glen Este - Withamsville	Cincinnati	OH	45245
Glen Este Middle School	4342 Glen Este Withamsville	Cincinnati	OH	45245
Goshen High School	6692 Goshen Rd	Goshen	OH	45122
Marr/Cook Elementary School	6696 Goshen Rd	Goshen	OH	45122
Spaulding Middle School	6755 Linton Rd	Goshen	OH	45122
Holly Hill Elementary School	3520 State Route 132	Amelia	OH	45102
Live Oaks CDC Vocational School	5956 Buckwheat Rd	Milford	OH	45150
Merwin Elementary School	1040 Gaskins Rd	Cincinnati	OH	45245
Miami Elementary School	1039 Goshen Pike	Milford	OH	45150
Milford Senior High School	1 Eagles Way	Milford	OH	45150
Milford Junior High School	5735 Pleasant Hill Rd	Milford	OH	45150
Milford Main Middle School	527 Lila Ave	Milford	OH	45150
Milford South Elementary School	777 Garfield	Milford	OH	45150
Monroe Elementary School	2117 Laurel-Lindale Rd	New Richmond	OH	45157
New Richmond Elementary School	1141 Bethel-New Richmond	New Richmond	OH	45157
New Richmond High School	1131 Bethel-New Richmond	New Richmond	OH	45157
New Richmond Middle School	1135 Bethel-New Richmond	New Richmond	OH	45157
St Bernadette Elementary School	1453 Locust Lake Rd	Amelia	OH	45102
St Louis Elementary School	250 N Broadway	Owensville	OH	45160
St Thomas More Elementary School	788 State Route 125	Withamsville	OH	45245
St Veronica Elementary School	4475 Mt Carmel-Tobasco Rd	Cincinnati	OH	45244
Hamlet Seventh -day Adventist Elementary	3353 State Route 132	Amelia	OH	45102
Sheila L Green Elementary School	6787 Goshen Rd	Goshen	OH	45122
Summerside Elementary School	4639 Vermona Dr	Cincinnati	OH	45245
U S Grant Joint Vocational School	718 W Plane St	Bethel	OH	45106
Williamsburg Elementary School	839 Spring St	Williamsburg	OH	45176
Williamsburg High School	500 South Fifth St.	Williamsburg	OH	45176
Willowville Elementary School	4529 Schoolhouse Rd	Batavia	OH	45103
St Andrew - St Elizabeth A Seton Elementary	5900 Buckwheat Rd	Milford	OH	45150
Withamsville-Tobasco Elementary	733 State Route 125	Cincinnati	OH	45245
Locust Corner Elementary School	3431 Locust Corner Rd	Cincinnati	OH	45245
Felicity-Franklin Middle School	415 Washington St	Felicity	OH	45120
Charles L Seipelt Elementary School	5684 Cromley Dr	Milford	OH	45150

FIRE, EMS, POLICE				
NAME	ADDRESS	CITY	STATE	ZIP
Amelia Police Dept.	44 W. Main St.	Amelia	OH	45102
Batavia Township Fire & Rescue	377 Main St.	Batavia	OH	45103
Batavia Police Dept.	389 W. Main St.	Batavia	OH	45103
Bethel Police Dept.	120 N. Main St.	Bethel	OH	45106
Bethel-Tate Fire Dept.	149 N. East St.	Bethel	OH	45106
Bethel-Tate Joint Amb. District	146 N. East St	Bethel	OH	45106
Clermont County Sheriff	4470 SR 222	Batavia	OH	45103
East Fork State Park	2505 Williamsburg-Bantum Rd	Bethel	OH	45106
Felicity EMS	851 Hopewell St.	Felicity	OH	45120
Felicity Police Dept.	415 W. Walnut St.	Felicity	OH	45120
Goshen Fire & EMS	1849 SR 28	Goshen	OH	45122
Goshen Twp. Police Dept.	1884 Walnut St.	Goshen	OH	45122
Jackson Twp. Fire Dept.	3261 US 50	Williamsburg	OH	45176
Miami Twp. Fire & EMS	5888 McPicken Dr	Milford	OH	45150
Miami Twp. Police Dept.	5900 McPicken Dr	Milford	OH	45150
Milford Comm. Fire Dept.	687 US 50	Milford	OH	45150
Milford Fire & EMS	18 Main St	Milford	OH	45150
Milford Police Dept.	19 High St.	Milford	OH	45150
Monroe Twp. EMS	2125 West Rd	New Richmond	OH	45157
Monroe Twp. Fire Dept.	1963 Laurel-Lindale Rd	New Richmond	OH	45157
New Richmond EMS	102 Willow St	New Richmond	OH	45157
New Richmond Fire Dept.	104 Market St.	New Richmond	OH	45157
New Richmond Police Dept.	102 Willow St	New Richmond	OH	45157
Newtonsville Police Dept.	307 W. Main St.	Newtonsville	OH	45158
Ohio State Highway Patrol	1000 Hospital Drive	Batavia	OH	45103
Owensville Fire & Rescue	202 S. Broadway	Owensville	OH	45160
Owensville Police Dept.	115 W. Main St	Owensville	OH	45160
Pierce Twp. Fire & EMS	950 Locust Corner Rd	Cincinnati	OH	45245
Pierce Twp. Police Dept.	950 Locust Corner Rd	Cincinnati	OH	45245
Stonelick State Park	2895 Lake Drive	Pleasant Plain	OH	45162
Union Twp. Police Dept.	4312 Gleneste Withamsville Rd	Cincinnati	OH	45245
Washington Twp. Fire Dept. 1	1784 US 52	Moscow	OH	45253
Wayne Twp. Fire & Rescue	797 Wright St.	Newtonsville	OH	45158
Williamsburg EMS	917 W. Main St	Williamsburg	OH	45176
Williamsburg Fire Dept.	915 W. Main St.	Williamsburg	OH	45176

FIRE, EMS, POLICE				
NAME	ADDRESS	CITY	STATE	ZIP
Williamsburg Police Dept.	107 W. Main St	Williamsburg	OH	45176
Clermont Mercy Hospital	3000 Hospital Dr.	Batavia	OH	45103
Washington Twp. Fire Dept. 2	2817 Mill St.	Pt. Isabel	OH	45153
Washington Twp. Fire Dept. 3	410 Market St.	Neville	OH	45156
Union Twp. Fire & EMS 10	855 SR 125	Cincinnati	OH	45245
Union Twp. Fire & EMS 30	1141 Old SR 74	Batavia	OH	45103
Miami Twp. Fire & EMS 2	6492 Branchhill-Guinea Pk	Loveland	OH	45140
Clermont County Sheriff Tate	149 N East St	Bethel	OH	45106
Clermont County Sheriff Fran.	981 Hopewell Rd	Felicity	OH	45120
Clermont County Sheriff Wash.	2238 SR 756	Moscow	OH	45253
Clermont County Sheriff Wash.	1784 US 52	Moscow	OH	45253
Clermont County Sheriff Moscow	79 Elizabeth St	Moscow	OH	45253
Clermont County Sheriff Monroe	2772 SR 222	New Richmond	OH	45157
Clermont County Sheriff Will.	4025 Alexander Ln	Batavia	OH	45103
Loveland Police Department	126 South Lebanon Rd	Loveland	OH	45140
Loveland Fire & EMS Station #1	100 E Loveland AV	Loveland	OH	45140
Wayne Twp. Fire & Rescue 2	6514 SR 133	Blanchester	OH	45107
Miami Twp Fire & EMS Station	1154 US 50	Milford	OH	45150
Owensville-Stonelick Twp. Fire	5750 Stonelick Williams Corner	Batavia	OH	45103
Union Township Fire Department	718 Old SR 74	Summerside	OH	
Batavia Township Fire & Rescue	490 W Main St	Batavia	OH	45103
Batavia Township Fire & Rescue	2401 Old SR 32	Batavia	OH	45103
B.M.O.P. Fire & Rescue	299 E. Main St	Amelia	OH	45102
Washington Twp. EMS	410 Market St	Neville	OH	45156
Felicity Franklin EMS	979 Hopewell Rd	Felicity	OH	45120
Felicity Franklin FD	718 Market St	Felicity	OH	45120
New Richmond EMS	300 Hamilton St	New Richmond	OH	45157
Loveland Police Dept.	126 S. Lebanon Rd	Loveland	OH	45140
Loveland-Symmes Fire Dept.	126 S. Lebanon Rd	Loveland	OH	45140
Anderson Twp. Fire Dept.	7984 Beechmont Ave.	Cincinnati	OH	45255
Fayetteville Fire & Rescue	100 Apple St.	Fayetteville	OH	45118

Appendix 7 - Clermont County Contacts

Clermont County Contacts

Beth Nevel
Director
Department of Public Safety Services
2279 Clermont Center Drive
Batavia, OH 45103
513-732-7777
513-735-8546 fax
bnevel@co.clermont.oh.us

Deborah Britton
Office of Technology, Communications & Security
2279 Clermont Center Dr
Batavia, OH 45103
Phone 513-732-7700
Fax 513-732-8045
dbritton@co.clermont.oh.us

Consultant Contacts

Jim Latchaw, P.E.
Project Manager
FMSM Engineers, Inc.
10018 International Boulevard
Cincinnati, Ohio 45246-4839
(513) 860-1070
(513) 860-1073 fax
jlatchaw@fmsmengineers.com

Scott Peyton, E.I.
Project Engineer
FMSM Engineers, Inc.
10018 International Boulevard
Cincinnati, Ohio 45246-4839
(513) 860-1070
(513) 860-1073 fax
speyton@fmsmengineers.com

Appendix 7 - Clermont County Public Review Comments

GEORGE E. PATTISON ATTORNEY AT LAW

285 E. MAIN STREET
BATAVIA, OHIO 45103
513-732-3800-TELEPHONE
513-732-6003-FAX
October 13, 2003

RECEIVED
OCT 17 2003
CLERMONT CO. DPSS
BM

Beth Nevel, Director
Department of Public Safety Services
2279 Clermont Center Drive
Batavia, OH 45103

Re: All Natural Hazard Mitigation Plan for Clermont County.

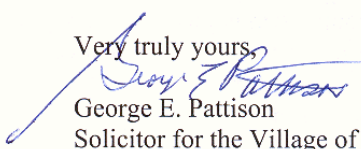
Dear Beth:

I represent Neville Village. As Solicitor for the Village, I have reviewed the All Natural Hazard Mitigation Plan Draft for Clermont County, dated September 2003, by Fuller Mossbarger, Scott and May Engineers. I have participated in a conference with Beth Nevel to review this plan and familiarized myself with the process and the plan. Over the last several years, in my capacity as an attorney, I have represented the Village of Neville in relation to the flood mitigation issues that have risen and ebbed in that community and I have represented private individuals who have been involved in the contracting processes in the mitigation that has occurred after the floods. As prosecuting attorney and assistant prosecuting attorney, I was involved in the nuclear licensing proceedings involving Zimmer Power Station and the disaster plan related thereto. As prosecuting attorney I was also involved in the issues relating to CECOS International, Inc., including the pumping of hazardous waste from the facility into a creek, and community nuisance issues.

I note that the plan is limited to Natural Hazard Mitigation. These are not the only type of hazard issues that are important to the community. CECOS remains a facility that is upstream from the East Fork Reservoir which is where we get a substantial amount of our drinking water. The contamination of East Fork by CECOS or any type of chemical release is not dealt with in the plan. Nor is the potential damage to large facilities like Zimmer or Beckjord Power Stations, or other large industrial facilities dealt with in this plan. As the County develops emergency plans, I believe these issues need to be addressed. In the older villages fire has been a significant hazard in the central business district. A recent fire in Georgetown, Brown County, destroyed a significant portion of the downtown business district, as did a fire in the Village of Batavia in the early '80's destroyed approximately one-half of a block before it was put out.

The Village agrees with the priority ranking in the Natural Hazard Mitigation Plan. We believe that storms, flooding, and tornados are the most likely types of natural damage to occur. The Village supports the planning process and wants this input taken into consideration in the Plan.

Very truly yours,


George E. Pattison
Solicitor for the Village of Neville

pma

GEORGE E. PATTISON
ATTORNEY AT LAW

285 E. MAIN STREET
BATAVIA, OHIO 45103
513-732-3800-TELEPHONE
513-732-6003-FAX

October 13, 2003

RECEIVED
OCT 17 2003 *BN*
CLERMONT CO. DPSS

Beth Nevel, Director
Department of Public Safety Services
2279 Clermont Center Drive
Batavia, OH 45103

Re: All Natural Hazard Mitigation Plan for Clermont County.

Dear Beth:

I represent Newtonsville Village. As Solicitor for the Village, I have reviewed the All Natural Hazard Mitigation Plan Draft for Clermont County, dated September 2003, by Fuller Mossbarger, Scott and May Engineers. I have participated in a conference with Beth Nevel to review this plan and familiarized myself with the process and the plan. Over the last several years, in my capacity as an attorney, I have represented the Village of Newtonsville in relation to the flood mitigation issues that have risen and ebbed in that community and I have represented private individuals who have been involved in the contracting processes in the mitigation that has occurred after the floods. As prosecuting attorney and assistant prosecuting attorney, I was involved in the nuclear licensing proceedings involving Zimmer Power Station and the disaster plan related thereto. As prosecuting attorney I was also involved in the issues relating to CECOS International, Inc., including the pumping of hazardous waste from the facility into a creek, and community nuisance issues.

I note that the plan is limited to Natural Hazard Mitigation. These are not the only type of hazard issues that are important to the community. CECOS remains a facility that is upstream from the East Fork Reservoir which is where we get a substantial amount of our drinking water. The contamination of East Fork by CECOS or any type of chemical release is not dealt with in the plan. Nor is the potential damage to large facilities like Zimmer or Beckjord Power Stations, or other large industrial facilities dealt with in this plan. As the County develops emergency plans, I believe these issues need to be addressed. In the older villages fire has been a significant hazard in the central business district. A recent fire in Georgetown, Brown County, destroyed a significant portion of the downtown business district, as did a fire in the Village of Batavia in the early '80's destroyed approximately one-half of a block before it was put out.

The Village agrees with the priority ranking in the Natural Hazard Mitigation Plan. We believe that storms, flooding, and tornados are the most likely types of natural damage to occur. The Village supports the planning process and wants this input taken into consideration in the Plan.

Very truly yours,

George E. Pattison
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Solicitor for the Village of Newtonsville

pma

Deborah

Please accept the following comments on behalf of Little Miami Inc. regarding the subject draft Natural Hazard Mitigation Plan. Our comments are limited to flooding hazards.

1) Flooding "hazards" are the result of manmade development in hazardous areas. Public policy should do everything possible to prohibit such future development, and remove existing development. Flood damages are very often paid for ultimately by the taxpayer. These costs include disaster assistance, subsidized floodplain insurance, etc. The taxpayer should not be burdened with these costs.

2) The draft report bemoans the fact (p. 15) that " development throughout the county (is) leading to increased amounts of runoff ...". Those responsible for this development should not be allowed to exacerbate downstream flooding, externalize these costs, and damage downstream property and the environment. Pre- and Post-construction runoff calculations should accurately reflect the impact of this development runoff and responsible parties should be held to a higher regulatory standard so that this development does not lead to "increased amount of runoff".

3) Public education through such efforts as onsite boundary signage marking the 100 year floodplain may help the public understand where these high hazard locations are found throughout the county. Education efforts should also included developers and local officials whose agendas often compete with effective floodplain management.

4) The draft report states (p,16) the "overall goal" of flood hazard reduction is "to save lives, reduce flood damage to property, and to increase education... . In effort to coordinate these worthy goals with the concern for water quality restoration and greenspace preservation along stream corridors, we suggest that "environmental protection" be included as a part of the overall goal.

Thank you for this opportunity to comment.

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*Celebrating 36 years of River Conservation along the Little Miami National & State Scenic River
Since 1967*

-----Original Message-----

From: Curtis Paddock [mailto:CPADDOCK@co.clermont.oh.us]

Sent: Monday, October 27, 2003 10:20 AM

To: Beth Nevel

Subject: Draft All Hazard Mitigation Plan: Comments

Beth:

Overall, this is a fine piece of work. I have a few comments. 1) On Page 10, Sec.2.6, it should be pointed out that our townships exercise a planning role through their zoning authority. Only Washington Township does not have township zoning. In addition, six of the townships have adopted Growth Management Plans that provide a policy framework for their desired, future development patterns. I expect the number of townships with such plans to increase over the next several years. 2) On Page 36, an activity is stated as, "Establish a storm water master plan and storm water utility." This statement goes beyond current BCC policy on this topic, so...I counsel caution in referring to it here. 3) On Page 45, Section labeled: Clermont County Landslide Mitigation Efforts, it states that "only limited landslide mitigation (is) underway...the county takes a reactive approach to solving landslide problems..." This statement and section is seriously flawed and does not reflect County practices. This problem is compounded by comments on Page 47 in the matrix. The third item in the matrix suggests that the Planning Dept. does not currently administer regulations and standards for landslide prone areas. This statement is flat-out wrong. For 25 years, the subdivision regulations have required special measures for proposed developments that impact Conservation Districts. Such Districts can be characterized by a variety of conditions, including steep slopes and slippery soils (conditions which would make an area landslide prone). In such a case, developers are required to prepare and submit detailed geotechnical studies that describe the impact of the proposed development on the hillsides and which specify appropriate mitigation measures. This data becomes a part of the overall application considered by the Planning Commission. If the information is lacking or suggests that mitigation will not be sufficient, the subdivision application is likely to be denied. If approved, notations specifying mitigation measures are required on the plat. Finally, the geotechnical issues are made known to the Building Dept. for their reference, during the subsequent construction monitoring and permitting process. Consequently, items 3, 5, and 7 in the matrix need to be removed or reworded, along with those portions of the narrative on Page 47 that make the same misstatements. There should also be reference to the County's Water Management and Sedimentation Control regulations and permitting process that addresses issues of vegetation cover and grading on hillsides. In short, the current text leaves the reader with the false impression that Clermont County does very little to regulate development that could cause landslides. I will be happy to work with the consultants to correct these problems with the Draft document.

Curt Paddock